

AMENDMENTS TO THE SPECIFICATION

Please replace the first paragraph, page 2 of the present application with the following:

The vast number of computer services offered over computer networks such as the Internet are not useful unless they can be located by potential users of the services. Sun Microsystem's JINI™ distributed computing environment Jini™ includes a discovery and join mechanism for locating services. In JINI's™ Jini's discovery and join mechanism, a requesting entity via a TCP connection. A requesting entity may use TCP to find a remote service, but the requesting entity must know how to connect to the remote service before making the request, thus the requesting entity must already know about the remote service. Accordingly, JINI's™ Jini's™ discovery and join mechanism may not work well when a client is searching for a service outside the client's typical domain. Multicast typically works on a local area network. Even though it is possible to use multicast across domains, doing so may flood the network with data packets. Thus, use of JINI™ Jini™ is limited to local area networks. Further, JINI™ Jini™ lacks authentication support. JINI™ Jini™ assumes all parties in the network are trusted. Thus, if a user connects her laptop to the network, she can automatically obtain full access to the services available in the network. Her access to the services available in the network cannot be limited.

Please replace the second paragraph, page 4 of the present application with the following:

The computers execute an appropriate operating system such as HP-UX®, Linux, Unix, MICROSOFT®, WINDOWS® 95, MICROSOFT® WINDOWS® 98, MICROSOFT® WINDOWS® NT, WINDOWS® 2000 APPLE® MACOS®, IBM® OS/2®, HP-UX®, Linux, Unix, Microsoft®, Windows® 95, Microsoft® Windows® 98, Microsoft® Windows® NT, Windows® 2000 APPLE® MacOS®, IBM® OS/2®, and the like. The computers may advantageously be equipped with a network communication device such as a network interface card, a modem, or other network connection device suitable for connecting to one or more networks.

Please replace the fourth paragraph, page 6 of the present application with the following:

In one embodiment, the invention is implemented using the Hewlett-Packard E-Speak Service Engine Development Platform Release 3.01 executing on a HEWLETT-PACKARD Hewlett-Packard 9000™ computer running the HP-US® operating system version 11.00. In this embodiment, the resource-handling platform is the E-Speak environment. The service interface is the E-Speak Service Interface (ESI). The application interface is the E-Speak Application Binary Interface (ABI). E-Speak logical machines communicate with each other using the E-Speak Service Interchange Protocol (ESIP).

Please replace the fifth paragraph, page 6-7 of the present application with the following:

Referring now to the drawings, Fig. 1 illustrates an environment in which ~~[[an]]~~ a resource locating system and method according to an embodiment of the present invention operate. In particular, the resource locating system and method may be implemented using the Hewlett-Packard E-Speak Service Engine Development Platform Release 3.01 executing on a HEWLETT-PACKARD Hewlett-Packard 9000™ computer running the HP-UX® operating system version 11.00. As depicted in Fig. 1, the environment is comprised of three HEWLETT-PACKARD Hewlett-Packard 9000™ computers, each including a logical machine 102 connected to one or more clients 104, connected to each other through a communication medium 106. In other embodiments, multiple logical machines 102 may reside in a single HEWLETT-PACKARD Hewlett-Packard 9000™ computer. In still other embodiments, the components of an instance of logical machine 102 may be distributed across multiple HEWLETT-PACKARD Hewlett-Packard 9000™ computers. In yet other embodiments, certain aspects of the resource locating system and method may be implemented on a single HEWLETT-PACKARD Hewlett-Packard 9000™ computer. In such instances, the environment is comprised of the one or more clients 104 and logical machine 102 executing on a single HEWLETT-PACKARD Hewlett-Packard 9000™ computer.

Please replace the first paragraph, page 7 of the present application with the following:

Although HEWLETT-PACKARD ~~Hewlett-Packard~~ 9000™ computer, an E-Speak Service Engine Development Platform, and a HP-UX® version 11.00 are specified, those skilled in the art realize that other computers, development software, and operating systems can be used to implement the invention as disclosed herein. Accordingly, the invention is not limited to any particular type or brand of computer, operating system, or software development platform.

Please replace the first paragraph, page 8 of the present application with the following:

Communication medium 106 may also be comprised of one or more other types of networks. By way of example, communication medium 106 can include local area networks (LANs), wide area networks (WANs), metropolitan area networks (MANs), public internets, private intranets, a private computer network, a secure internet, a private network, a public network, a value-added network, interactive television networks, wireless networks, two-way cable networks, interactive kiosk networks, and the like. Communication medium 106 may comprise other communication protocols such as the International Standards Organization's Open Systems Interconnection, IBM's SNA®, Novell's NETWARE®, and Banyon VINES®, ~~Novell's Netware®, and Banyon Vines®~~, that facilitate communication between the attached computers.

Please replace the second paragraph, page 15 of the present application with the following:

If no remote advertising service is specified by the advertising service, query 906 [[904]] is sent to well-known portal 901. Well-known portal 901 searches for a matching advertising service. If a match is found, a connection object 903 for connecting to a core served by the matching remote advertising service is returned to core 202B.

Please replace the third paragraph, page 15 of the present application with the following:

Home core 202B uses connection object 903 to connect to remote core 202A. Core 202B sends query 906 [[904]], along with the client's key ring for authentication, to remote core 202A. Core 202A authenticates home core 202B, then runs query 906 [[904]] in remote core 202A's advertising service 600A. If a match is found, advertising service 600A returns a message identifying the matching resource 908 to remote core 202A. Message 908, along with a key ring 910 representing client 104B's capability to access the resources in advertising service 600A, is then returned to core 202B. Core 202B can then access the resource using the resource identification and client 104B's key ring.

Please replace the Abstract with the following amended Abstract:

A method and system ~~are disclosed~~ for locating resources outside a client's normal domain ~~provides for the domain.~~ The client to send ~~sends~~ a query to a core serving the client. The core then sends the query to remote core over a communication network. The remote core runs the query in an advertising service serving the remote core, then returns a message identifying a matching resource to the core serving the client. The core serving the client locates the remote core by searching for appropriate advertising services in a well-known portal. In some embodiments, the client's core authenticates itself to the remote core before the query is run. Accordingly, unauthorized clients are prevented from accessing resources registered with the advertising service serving the remote core.